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Page 1 of 8

TECH CENTER 1600/2900



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1600

RAW SEQUENCE LISTING

DATE: 09/11/2002

PATENT APPLICATION: US/09/617,389B

TIME: 09:55:31

Input Set : A:\96-06C3-SEQ.TXT

Output Set: N:\CRF4\09112002\I617389B.raw

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4 <110> APPLICANT: Lok, Si
5      Conklin, Darrell C.
6      Lofton-Day, Catherine E.
9 <120> TITLE OF INVENTION: Antibodies That Bind Testis-Specific
10     Insulin Homolog Polypeptides
13 <130> FILE REFERENCE: 96-06C3
15 <140> CURRENT APPLICATION NUMBER: 09/617,389B
16 <141> CURRENT FILING DATE: 2000-07-17
18 <150> PRIOR APPLICATION NUMBER: 09/339,148
19 <151> PRIOR FILING DATE: 1999-06-24
21 <150> PRIOR APPLICATION NUMBER: 08/905,267
22 <151> PRIOR FILING DATE: 1997-01-18
24 <150> PRIOR APPLICATION NUMBER: 60/023,213
25 <151> PRIOR FILING DATE: 1996-02-08
27 <150> PRIOR APPLICATION NUMBER: 60/031,592
28 <151> PRIOR FILING DATE: 1996-11-21
30 <160> NUMBER OF SEQ ID NOS: 24
32 <170> SOFTWARE: FastSEQ for Windows Version 3.0
34 <210> SEQ ID NO: 1
35 <211> LENGTH: 566
36 <212> TYPE: DNA
37 <213> ORGANISM: Rattus norvegicus
39 <220> FEATURE:
40 <221> NAME/KEY: CDS
41 <222> LOCATION: (1)...(566)
43 <400> SEQUENCE: 1
44   atg aag cag ctg tgc tgt tct tgt ctg ttg tgg ctt gga ctc cta ctg      48
45   Met Lys Gln Leu Cys Cys Ser Cys Leu Leu Trp Leu Gly Leu Leu Leu
46   1          5          10          15
48   gct cct ttc tcc cag gaa caa gaa gag gtc acc agc ccc acg aag ttg      96
49   Ala Pro Phe Ser Gln Glu Gln Glu Glu Val Thr Ser Pro Thr Lys Leu
50   20          25          30
52   tgc ggc agg gac ctg ttg gta gaa gtt ata aaa ctc tgt ggc caa aat      144
53   Cys Gly Arg Asp Leu Leu Val Glu Val Ile Lys Leu Cys Gly Gln Asn
54   35          40          45
56   gac tgg agc cgg ttc tcg atg gaa gag caa agt cct atg aca gag ttg      192
57   Asp Trp Ser Arg Phe Ser Met Glu Glu Gln Ser Pro Met Thr Glu Leu
58   50          55          60
60   gtt ccc caa tat aca cgg aaa gtc aaa acc ttc aac cct cac cgg tcc      240
61   Val Pro Gln Tyr Thr Arg Lys Val Lys Thr Phe Asn Pro His Arg Ser
62   65          70          75          80
64   tcc tcc tcc tgg gga aga ttc aca aac cca ggc gtc tcc cag aag aaa      288
65   Ser Ser Ser Trp Gly Arg Phe Thr Asn Pro Gly Val Ser Gln Lys Lys

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66          85          90          95
68 gca aca cac act tgg gaa tct cag tca ctg ccc aac tat cag ctt aaa      336
69 Ala Thr His Thr Trp Glu Ser Gln Ser Leu Pro Asn Tyr Gln Leu Lys
70          100          105          110
72 aag gag gag ctg ctt ccg aag aca gga gtg cat tca tac cac ggt ggc      384
73 Lys Glu Glu Leu Leu Pro Lys Thr Gly Val His Ser Tyr His Gly Gly
74          115          120          125
76 aag ccc tat gtg aag agt gta aaa ttt cag aag aaa aac act gac aaa      432
77 Lys Pro Tyr Val Lys Ser Val Lys Phe Gln Lys Lys Asn Thr Asp Lys
78          130          135          140
80 atg agt acc ttc agc ggc tta ttt tgg ggg aac cat ccc cag agg aag      480
81 Met Ser Thr Phe Ser Gly Leu Phe Trp Gly Asn His Pro Gln Arg Lys
82          145          150          155          160
84 cgc aga ggt ttc gca gat aaa tgc tgt gct ata ggg tgc tcc aaa gag      528
85 Arg Arg Gly Phe Ala Asp Lys Cys Cys Ala Ile Gly Cys Ser Lys Glu
86          165          170          175
88 gag ctg gcc gtc gca tgc ctt ccg ttt gtt gat ttt ta      566
89 Glu Leu Ala Val Ala Cys Leu Pro Phe Val Asp Phe
90          180          185
93 <210> SEQ ID NO: 2
94 <211> LENGTH: 188
95 <212> TYPE: PRT
96 <213> ORGANISM: Rattus norvegicus
98 <400> SEQUENCE: 2
99 Met Lys Gln Leu Cys Cys Ser Cys Leu Leu Trp Leu Gly Leu Leu Leu
100 1 5 10 15
101 Ala Pro Phe Ser Gln Glu Gln Glu Glu Val Thr Ser Pro Thr Lys Leu
102 20 25 30
103 Cys Gly Arg Asp Leu Leu Val Glu Val Ile Lys Leu Cys Gly Gln Asn
104 35 40 45
105 Asp Trp Ser Arg Phe Ser Met Glu Glu Gln Ser Pro Met Thr Glu Leu
106 50 55 60
107 Val Pro Gln Tyr Thr Arg Lys Val Lys Thr Phe Asn Pro His Arg Ser
108 65 70 75 80
109 Ser Ser Ser Trp Gly Arg Phe Thr Asn Pro Gly Val Ser Gln Lys Lys
110 85 90 95
111 Ala Thr His Thr Trp Glu Ser Gln Ser Leu Pro Asn Tyr Gln Leu Lys
112 100 105 110
113 Lys Glu Glu Leu Leu Pro Lys Thr Gly Val His Ser Tyr His Gly Gly
114 115 120 125
115 Lys Pro Tyr Val Lys Ser Val Lys Phe Gln Lys Lys Asn Thr Asp Lys
116 130 135 140
117 Met Ser Thr Phe Ser Gly Leu Phe Trp Gly Asn His Pro Gln Arg Lys
118 145 150 155 160
119 Arg Arg Gly Phe Ala Asp Lys Cys Cys Ala Ile Gly Cys Ser Lys Glu
120 165 170 175
121 Glu Leu Ala Val Ala Cys Leu Pro Phe Val Asp Phe
122 180 185
124 <210> SEQ ID NO: 3

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Input Set : A:\96-06C3-SEQ.TXT

Output Set: N:\CRF4\09112002\I617389B.raw

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125 <211> LENGTH: 49
126 <212> TYPE: DNA
127 <213> ORGANISM: Artificial Sequence
129 <220> FEATURE:
130 <223> OTHER INFORMATION: Oligonucleotide zc6091
132 <400> SEQUENCE: 3
133 gagcacagaa ttctactctc gaggcggccg cttttttttt tttttttttt 49
135 <210> SEQ ID NO: 4
136 <211> LENGTH: 32
137 <212> TYPE: DNA
138 <213> ORGANISM: Artificial Sequence
140 <220> FEATURE:
141 <223> OTHER INFORMATION: Oligonucleotide ZC10008
143 <400> SEQUENCE: 4
144 cagggtcgaca ccatgccgcg gctcctccgc tt 32
146 <210> SEQ ID NO: 5
147 <211> LENGTH: 34
148 <212> TYPE: DNA
149 <213> ORGANISM: Artificial Sequence
151 <220> FEATURE:
152 <223> OTHER INFORMATION: Oligonucleotide ZC10491
154 <400> SEQUENCE: 5
155 gagtctagat tatgtcactc atacaggaaa gctc 34
157 <210> SEQ ID NO: 6
158 <211> LENGTH: 23
159 <212> TYPE: DNA
160 <213> ORGANISM: Artificial Sequence
162 <220> FEATURE:
163 <223> OTHER INFORMATION: Oligonucleotide ZC10684
165 <400> SEQUENCE: 6
166 tctctcgctt gtcctgctg tgg 23
168 <210> SEQ ID NO: 7
169 <211> LENGTH: 23
170 <212> TYPE: DNA
171 <213> ORGANISM: Artificial Sequence
173 <220> FEATURE:
174 <223> OTHER INFORMATION: Oligonucleotide ZC10685
176 <400> SEQUENCE: 7
177 ctctctgaaa cggaactggc tcc 23
179 <210> SEQ ID NO: 8
180 <211> LENGTH: 574
181 <212> TYPE: DNA
182 <213> ORGANISM: Artificial Sequence
184 <220> FEATURE:
185 <223> OTHER INFORMATION: Human testis EST
187 <400> SEQUENCE: 8
188 gtgcacacca tgccgcggct cctccgcttg tccctgctgt ggcttggact cctgctggtt 60
189 cggttttctc gtgaactgag cgacatcagc agtgccagga agctgtgcgg cagggtacttg 120
190 gtgaaagaaa tagaaaaact ctgcggccat gccactgga gccagttccg tttcgaggag 180

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RAW SEQUENCE LISTING

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TIME: 09:55:31

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Output Set: N:\CRF4\09112002\I617389B.raw

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191 gaaacccctt tctcacggtt gattgcacag gcctcggaga aggtcgaagc ctacagccca 240
192 taccagttcg aaagcccgcg aaccgcttcc ccggcccggg gaagaggcac aaaccagtg 300
193 tctacttctt gggaagaagc agtaaacagt tgggaaatgc agtcactacc tgagtataag 360
194 gataaaaagg gatattcacc ctttgtctg ctggagtttg ctggaggccc actccagatg 420
195 ctgtttgcct gggatatcacc agcagaggct gcagaacagc aaagattgct gcctgttcct 480
196 tcctctggaa gcttcatccc agaggggcac ccactagatg ccagccagag ctttcctgta 540
197 tgagtgcacat aaggattcaa cttcaacaga attc 574
199 <210> SEQ ID NO: 9
200 <211> LENGTH: 26
201 <212> TYPE: DNA
202 <213> ORGANISM: Artificial Sequence
204 <220> FEATURE:
205 <223> OTHER INFORMATION: Oligonucleotide ZC10491
207 <400> SEQUENCE: 9
208 cgaccgccat tgcacaacgc ggagga 26
210 <210> SEQ ID NO: 10
211 <211> LENGTH: 35
212 <212> TYPE: DNA
213 <213> ORGANISM: Artificial Sequence
215 <220> FEATURE:
216 <223> OTHER INFORMATION: Oligonucleotide ZC10537
218 <400> SEQUENCE: 10
219 ataggaggaa aggttggttg tgacaaagaa acttg 35
221 <210> SEQ ID NO: 11
222 <211> LENGTH: 34
223 <212> TYPE: DNA
224 <213> ORGANISM: Artificial Sequence
226 <220> FEATURE:
227 <223> OTHER INFORMATION: Oligonucleotide ZC10538
229 <400> SEQUENCE: 11
230 gacgaattct gttgaagttg aatccttatg tcac 34
232 <210> SEQ ID NO: 12
233 <211> LENGTH: 703
234 <212> TYPE: DNA
235 <213> ORGANISM: Homo sapiens
237 <220> FEATURE:
238 <221> NAME/KEY: CDS
239 <222> LOCATION: (17)...(658)
241 <400> SEQUENCE: 12
242 gcctggggtc acaggg atg ccg cgg ctc ctc cgc ttg tcc ctg ctg tgg ctt 52
243 Met Pro Arg Leu Leu Arg Leu Ser Leu Leu Trp Leu
244 1 5 10
246 gga ctc ctg ctg gtt cgg ttt tct cgt gaa ctg agc gac atc agc agt 100
247 Gly Leu Leu Leu Val Arg Phe Ser Arg Glu Leu Ser Asp Ile Ser Ser
248 15 20 25
250 gcc agg aag ctg tgc ggc agg tac ttg gtg aaa gaa ata gaa aaa ctc 148
251 Ala Arg Lys Leu Cys Gly Arg Tyr Leu Val Lys Glu Ile Glu Lys Leu
252 30 35 40
254 tgc ggc cat gcc aac tgg agc cag ttc cgt ttc gag gag gaa acc cct 196

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RAW SEQUENCE LISTING

DATE: 09/11/2002

PATENT APPLICATION: US/09/617,389B

TIME: 09:55:31

Input Set : A:\96-06C3-SEQ.TXT

Output Set: N:\CRF4\09112002\I617389B.raw

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255 Cys Gly His Ala Asn Trp Ser Gln Phe Arg Phe Glu Glu Glu Thr Pro
256 45 50 55 60
258 ttc tca cgg ttg att gca cag gcc tcg gag aag gtc gaa gcc tac agc 244
259 Phe Ser Arg Leu Ile Ala Gln Ala Ser Glu Lys Val Glu Ala Tyr Ser
260 65 70 75
262 cca tac cag ttc gaa agc ccg caa acc gct tcc ccg gcc cgg gga aga 292
263 Pro Tyr Gln Phe Glu Ser Pro Gln Thr Ala Ser Pro Ala Arg Gly Arg
264 80 85 90
266 ggc aca aac cca gtg tct act tct tgg gaa gaa gca gta aac agt tgg 340
267 Gly Thr Asn Pro Val Ser Thr Ser Trp Glu Glu Ala Val Asn Ser Trp
268 95 100 105
270 gaa atg cag tca cta cct gag tat aag gat aaa aag gga tat tca ccc 388
271 Glu Met Gln Ser Leu Pro Glu Tyr Lys Asp Lys Lys Gly Tyr Ser Pro
272 110 115 120
274 ctt ggt aag aca aga gaa ttt tct tca tca cat aat atc aat gta tat 436
275 Leu Gly Lys Thr Arg Glu Phe Ser Ser Ser His Asn Ile Asn Val Tyr
276 125 130 135 140
278 att cat gag aat gca aaa ttt cag aag aaa cgt aga aac aaa att aaa 484
279 Ile His Glu Asn Ala Lys Phe Gln Lys Lys Arg Arg Asn Lys Ile Lys
280 145 150 155
282 acc tta agc aat ttg ttt tgg ggg cat cat ccc caa aga aaa cgc aga 532
283 Thr Leu Ser Asn Leu Phe Trp Gly His His Pro Gln Arg Lys Arg Arg
284 160 165 170
286 gga tat tca gaa aag tgt tgt ctt aca gga tgt aca aaa gaa gaa ctt 580
287 Gly Tyr Ser Glu Lys Cys Cys Leu Thr Gly Cys Thr Lys Glu Glu Leu
288 175 180 185
290 agc att gca tgt ctt cca tat att gat ttt aaa agg cta aag gaa aaa 628
291 Ser Ile Ala Cys Leu Pro Tyr Ile Asp Phe Lys Arg Leu Lys Glu Lys
292 190 195 200
294 aga tca tca ctt gta act aag ata tac taa ccattcttaga attttttcta 678
295 Arg Ser Ser Leu Val Thr Lys Ile Tyr *
296 205 210
298 acctaataaaa agcttaatac atttta 703
300 <210> SEQ ID NO: 13
301 <211> LENGTH: 213
302 <212> TYPE: PRT
303 <213> ORGANISM: Homo sapiens
305 <400> SEQUENCE: 13
306 Met Pro Arg Leu Leu Arg Leu Ser Leu Leu Trp Leu Gly Leu Leu Leu
307 1 5 10 15
308 Val Arg Phe Ser Arg Glu Leu Ser Asp Ile Ser Ser Ala Arg Lys Leu
309 20 25 30
310 Cys Gly Arg Tyr Leu Val Lys Glu Ile Glu Lys Leu Cys Gly His Ala
311 35 40 45
312 Asn Trp Ser Gln Phe Arg Phe Glu Glu Glu Thr Pro Phe Ser Arg Leu
313 50 55 60
314 Ile Ala Gln Ala Ser Glu Lys Val Glu Ala Tyr Ser Pro Tyr Gln Phe
315 65 70 75 80
316 Glu Ser Pro Gln Thr Ala Ser Pro Ala Arg Gly Arg Gly Thr Asn Pro

```

RAW SEQUENCE LISTING ERROR SUMMARY DATE: 09/11/2002
PATENT APPLICATION: US/09/617,389B TIME: 09:55:32

Input Set : A:\96-06C3-SEQ.TXT
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Please Note:

Use of n and/or Xaa have been detected in the Sequence Listing. Please review the Sequence Listing to ensure that a corresponding explanation is presented in the <220> to <223> fields of each sequence which presents at least one n or Xaa.

Seq#:16; Xaa Pos. 4,5,6,7,8,9,10,11,12,13

Seq#:17; Xaa Pos. 3,4,5,7,8,9,10,11,12,13,14

VERIFICATION SUMMARY

DATE: 09/11/2002

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TIME: 09:55:32

Input Set : A:\96-06C3-SEQ.TXT

Output Set: N:\CRF4\09112002\I617389B.raw

L:365 M:281 W: Numeric Fields not Ordered, <221> Sort in ascending order!
L:369 M:258 W: Mandatory Feature missing, <220> not found for SEQ ID#:16
L:370 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:16 after pos.:0
L:381 M:281 W: Numeric Fields not Ordered, <221> Sort in ascending order!
L:385 M:258 W: Mandatory Feature missing, <220> not found for SEQ ID#:17
L:386 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:17 after pos.:0